

L Number	Hits	Search Text	DB	Time stamp
1	120	multimetal adj oxide\$	USPAT; US-PPGPUB; EPO; JPO; DERWENT USPAT; US-PPGPUB; EPO; JPO; DERWENT USPAT; US-PPGPUB; EPO; JPO; DERWENT USPAT; US-PPGPUB; EPO; JPO; DERWENT USPAT;	2003/06/25 12:34
2	170	562/532.ccls.	USPAT; US-PPGPUB; EPO; JPO; DERWENT USPAT; US-PPGPUB; EPO; JPO; DERWENT USPAT;	2003/06/25 12:34
3	273	562/535.ccls.	USPAT; US-PPGPUB; EPO; JPO; DERWENT USPAT; US-PPGPUB; EPO; JPO; DERWENT USPAT;	2003/06/25 12:34
4	67791	antimony	USPAT; US-PPGPUB; EPO; JPO; DERWENT USPAT; US-PPGPUB; EPO; JPO; DERWENT USPAT;	2003/06/25 12:42
12	406	502/312.ccls.	USPAT; US-PPGPUB; EPO; JPO; DERWENT USPAT; US-PPGPUB; EPO; JPO; DERWENT USPAT;	2003/06/25 12:42
13	385	562/532.ccls. or 562/535.ccls.	USPAT; US-PPGPUB; EPO; JPO; DERWENT USPAT; US-PPGPUB; EPO; JPO; DERWENT USPAT;	2003/06/25 12:42
14	36	502/312.ccls. and (562/532.ccls. or 562/535.ccls.)	USPAT; US-PPGPUB; EPO; JPO; DERWENT USPAT; US-PPGPUB; EPO; JPO; DERWENT USPAT;	2003/06/25 12:42
15	1172	ammonium adj heptamolybdate	USPAT; US-PPGPUB; EPO; JPO; DERWENT USPAT;	2003/06/25 12:43
17	1844	copper adj carbonate	USPAT; US-PPGPUB; EPO; JPO; DERWENT USPAT;	2003/06/25 12:43
18	0	MoCu\$ and ((ammonium adj heptamolybdate) and (copper adj carbonate))	USPAT; US-PPGPUB; EPO; JPO; DERWENT USPAT;	2003/06/25 12:43
5	2	9627437.pn.	USPAT; US-PPGPUB; EPO; JPO; DERWENT USPAT;	2003/06/25 12:43
6	1	0811597.pn.	USPAT; US-PPGPUB; EPO; JPO; DERWENT USPAT;	2003/06/25 12:43
7	15	562/532.ccls. and (multimetal adj oxide\$)	USPAT; US-PPGPUB; EPO; JPO; DERWENT USPAT;	2003/06/25 12:43
8	2	6084126.pn.	USPAT; US-PPGPUB; EPO; JPO; DERWENT USPAT;	2003/06/25 12:43
9	2	6084126.URPN.	USPAT;	2003/06/25 12:43
10	12	(multimetal adj oxide\$) and 562/535.ccls.	US-PPGPUB; EPO; JPO; DERWENT USPAT;	2003/06/25 12:43
11	6	((multimetal adj oxide\$) and 562/535.ccls.) and antimony	US-PPGPUB; EPO; JPO; DERWENT USPAT; US-PPGPUB; EPO; JPO; DERWENT USPAT;	2003/06/25 12:43
16	36	(502/312.ccls. and (562/532.ccls. or 562/535.ccls.)) and (562/532.ccls. or 562/535.ccls.)	US-PPGPUB; EPO; JPO; DERWENT	2003/06/25 12:43

19	7	(ammonium adj heptamolybdate) and (copper adj carbonate)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/06/25 12:43 2003/06/25 12:43 2003/06/25 12:43 2003/06/25 12:43 2003/06/25 12:49 2003/06/25 12:49
20	2	5730951.pn.		
21	194	MoCu\$		
22	2	5521137.pn.		
23	2	19740493.pn.		
24	2	"19740493"		

	Type	L #	Hits	Search Text	DBS	Time Stamp	Comments	Error Definition
1	BRS	L1	120	multimetal adj oxide\$	USPAT; US-PG PUB; EPO; JPO; DERWE NT	2003/06/25 12:34		Truncation overflow.
2	BRS	L2	170	562/532.ccls.	USPAT; US-PG PUB; EPO; JPO; DERWE NT	2003/06/25 12:34		
3	BRS	L3	273	562/535.ccls.	USPAT; US-PG PUB; EPO; JPO; DERWE NT	2003/06/25 12:34		
4	BRS	L4	67791	antimony	USPAT; US-PG PUB; EPO; JPO; DERWE NT	2003/06/25 12:34		
5	BRS	L12	406	502/312.ccls.	USPAT; US-PG PUB; EPO; JPO; DERWE NT	2003/06/25 12:42		
6	BRS	L13	385	562/532.ccls. or 562/535.ccls.	USPAT; US-PG PUB; EPO; JPO; DERWE NT	2003/06/25 12:42		
7	BRS	L14	36	502/312.ccls. and (562/532.ccls. or 562/535.ccls.)	USPAT; US-PG PUB; EPO; JPO; DERWE NT	2003/06/25 12:42		

	Errors
1	1
2	0
3	0
4	0
5	0
6	0
7	0

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition
8	BRS	L15	1172	ammonium adj heptamolybdate	USPAT; US-PG PUB; EPO; JPO; DERWE NT	2003/06/25 12:42		
9	BRS	L17	1844	copper adj carbonate	USPAT; US-PG PUB; EPO; JPO; DERWE NT	2003/06/25 12:43		
10	BRS	L18	0	MoCu\$ and ((ammonium adj heptamolybdate) and (copper adj carbonate))	USPAT; US-PG PUB; EPO; JPO; DERWE NT	2003/06/25 12:43		
11	BRS	L5	2	9627437.pn.	USPAT; US-PG PUB; EPO; JPO; DERWE NT	2003/06/25 12:43		
12	BRS	L6	1	0811597.pn.	USPAT; US-PG PUB; EPO; JPO; DERWE NT	2003/06/25 12:43		
13	BRS	L7	15	562/532.ccls. and (multimetal adj oxide\$)	USPAT; US-PG PUB; EPO; JPO; DERWE NT	2003/06/25 12:43		Truncation overflow.
14	BRS	L8	2	6084126.pn.	USPAT; US-PG PUB; EPO; JPO; DERWE NT	2003/06/25 12:43		
15	BRS	L9	2	6084126.URPN.	USPAT	2003/06/25 12:43		

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8	0
9	0
10	0
11	0
12	0
13	1
14	0
15	0

	Type	L #	Hits	Search Text	DBS	Time Stamp	Comments	Error Definition
16	BRS	L10	12	(multimetal adj oxide\$) and 562/535.ccls.	USPAT; US-PG PUB; EPO; JPO; DERWE NT	2003/06/25 12:43		Truncation overflow.
17	BRS	L11	6	((multimetal adj oxide\$) and 562/535.ccls.) and antimony	USPAT; US-PG PUB; EPO; JPO; DERWE NT	2003/06/25 12:43		Truncation overflow.
18	BRS	L16	36	(502/312.ccls. and (562/532.ccls. or 562/535.ccls.) and (562/532.ccls. or 562/535.ccls.)	USPAT; US-PG PUB; EPO; JPO; DERWE NT	2003/06/25 12:43		
19	BRS	L19	7	(ammonium adj heptamolybdate) and (copper adj carbonate)	USPAT; US-PG PUB; EPO; JPO; DERWE NT	2003/06/25 12:43		
20	BRS	L20	2	5730951.pn.	USPAT; US-PG PUB; EPO; JPO; DERWE NT	2003/06/25 12:43		
21	BRS	L21	194	MoCu\$	USPAT; US-PG PUB; EPO; JPO; DERWE NT	2003/06/25 12:43		
22	BRS	L22	2	5521137.pn.	USPAT; US-PG PUB; EPO; JPO; DERWE NT	2003/06/25 12:43		

	Err ors
16	1
17	1
18	0
19	0
20	0
21	0
22	0

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition
23	BRS	L23	2	19740493.pn.	USPAT ; US-PG PUB; EPO; JPO; DERWE NT	2003/06/25 12:49		
24	BRS	L24	2	"19740493"	USPAT ; US-PG PUB; EPO; JPO; DERWE NT	2003/06/25 12:49		

	Err ors
23	0
24	0

## Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID: ssspta1623paz

PASSWORD:  
TERMINAL (ENTER 1, 2, 3, OR ?):2

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now available on STN  
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NEWS 7 Sep 03 JAPIO has been reloaded and enhanced  
NEWS 8 Sep 16 Experimental properties added to the REGISTRY file  
NEWS 9 Sep 16 CA Section Thesaurus available in CAPLUS and CA  
NEWS 10 Oct 01 CASREACT Enriched with Reactions from 1907 to 1985  
NEWS 11 Oct 24 BEILSTEIN adds new search fields  
NEWS 12 Oct 24 Nutraceuticals International (NUTRACEUT) now available on  
STN  
NEWS 13 Nov 18 DKILIT has been renamed APOLLIT  
NEWS 14 Nov 25 More calculated properties added to REGISTRY  
NEWS 15 Dec 04 CSA files on STN  
NEWS 16 Dec 17 PCTFULL now covers WP/PCT Applications from 1978 to date  
NEWS 17 Dec 17 TOXCENTER enhanced with additional content  
NEWS 18 Dec 17 Adis Clinical Trials Insight now available on STN  
NEWS 19 Jan 29 Simultaneous left and right truncation added to COMPENDEX,  
ENERGY, INSPEC  
NEWS 20 Feb 13 CANCERLIT is no longer being updated  
NEWS 21 Feb 24 METADEX enhancements  
NEWS 22 Feb 24 PCTGEN now available on STN  
NEWS 23 Feb 24 TEMA now available on STN  
NEWS 24 Feb 26 NTIS now allows simultaneous left and right truncation  
NEWS 25 Feb 26 PCTFULL now contains images  
NEWS 26 Mar 04 SDI PACKAGE for monthly delivery of multifile SDI results  
NEWS 27 Mar 20 EVENTLINE will be removed from STN  
NEWS 28 Mar 24 PATDPAFULL now available on STN  
NEWS 29 Mar 24 Additional information for trade-named substances without  
structures available in REGISTRY  
NEWS 30 Apr 11 Display formats in DGENE enhanced  
NEWS 31 Apr 14 MEDLINE Reload  
NEWS 32 Apr 17 Polymer searching in REGISTRY enhanced  
NEWS 33 Jun 13 Indexing from 1947 to 1956 added to records in CA/CAPLUS  
NEWS 34 Apr 21 New current-awareness alert (SDI) frequency in  
WPIDS/WPINDEX/WPIX  
NEWS 35 Apr 28 RDISCLOSURE now available on STN  
NEWS 36 May 05 Pharmacokinetic information and systematic chemical names  
added to PHAR  
NEWS 37 May 15 MEDLINE file segment of TOXCENTER reloaded  
NEWS 38 May 15 Supporter information for ENCOMPPAT and ENCOMPLIT updated  
NEWS 39 May 16 CHEMREACT will be removed from STN

NEWS 40 May 19 Simultaneous left and right truncation added to WSCA  
NEWS 41 May 19 RAPRA enhanced with new search field, simultaneous left and right truncation  
NEWS 42 Jun 06 Simultaneous left and right truncation added to CBNB  
NEWS 43 Jun 06 PASCAL enhanced with additional data  
NEWS 44 Jun 20 2003 edition of the FSTA Thesaurus is now available

NEWS EXPRESS April 4 CURRENT WINDOWS VERSION IS V6.01a, CURRENT MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP), AND CURRENT DISCOVER FILE IS DATED 01 APRIL 2003

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NEWS WWW

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FILE 'HOME' ENTERED AT 07:31:50 ON 25 JUN 2003

=> reg

THIS COMMAND NOT AVAILABLE IN THE CURRENT FILE

Some commands only work in certain files. For example, the EXPAND command can only be used to look at the index in a file which has an index. Enter "HELP COMMANDS" at an arrow prompt (=>) for a list of commands which can be used in this file.

=> file reg  
COST IN U.S. DOLLARS  
  
FULL ESTIMATED COST

SINCE FILE ENTRY 0.21	TOTAL SESSION 0.21
-----------------------------	--------------------------

FILE 'REGISTRY' ENTERED AT 07:31:59 ON 25 JUN 2003  
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 24 JUN 2003 HIGHEST RN 536971-45-6  
DICTIONARY FILE UPDATES: 24 JUN 2003 HIGHEST RN 536971-45-6

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2003

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties

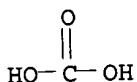
in the CAS Registry File, for complete details:  
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=> e copper carbonate/cn  
E1 1 COPPER CARBIDE SILICIDE/CN  
E2 1 COPPER CARBIDE SULFIDE (CU3CS2) /CN  
E3 2 --> COPPER CARBONATE/CN  
E4 1 COPPER CARBONATE (1:1) /CN  
E5 1 COPPER CARBONATE (CU(HCO2)2) /CN  
E6 1 COPPER CARBONATE (CU2CO3) /CN  
E7 1 COPPER CARBONATE (CUCO3) /CN  
E8 1 COPPER CARBONATE HYDROXIDE/CN  
E9 1 COPPER CARBONATE HYDROXIDE (CU2(CO3)(OH)) /CN  
E10 1 COPPER CARBONATE HYDROXIDE (CU2(CO3)(OH)2) MONOHYDRATE/CN  
E11 1 COPPER CARBONATE HYDROXIDE (CU2(CO3)OH)2 HYDRATE/CN  
E12 1 COPPER CARBONATE HYDROXIDE (CU2(OH)2CO3) /CN

=> e3  
L1 2 "COPPER CARBONATE" /CN

=> d 11

L1 ANSWER 1 OF 2 REGISTRY COPYRIGHT 2003 ACS  
RN 7492-68-4 REGISTRY  
CN Carbonic acid, copper salt (8CI, 9CI) (CA INDEX NAME)  
OTHER CA INDEX NAMES:  
CN Copper carbonate (6CI, 7CI)  
OTHER NAMES:  
CN Cupromaag  
DR 17301-00-7  
MF C H2 O3 . x Cu  
CI COM  
LC STN Files: AGRICOLA, BIOBUSINESS, BIOSIS, CA, CAOLD, CAPLUS, CASREACT,  
CHEMCATS, CHEMLIST, CIN, EMBASE, GMELIN\*, IFICDB, IFIPAT, IFIUDB,  
NIOSHTIC, PDLCOM\*, PIRA, PROMT, TOXCENTER, TULSA, USPAT2, USPATFULL,  
VTB (\*File contains numerically searchable property data)  
Other Sources: EINECS\*\*  
(\*\*Enter CHEMLIST File for up-to-date regulatory information)  
CRN (463-79-6)



●x Cu(x)

358 REFERENCES IN FILE CA (1957 TO DATE)  
19 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
358 REFERENCES IN FILE CAPLUS (1957 TO DATE)  
47 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

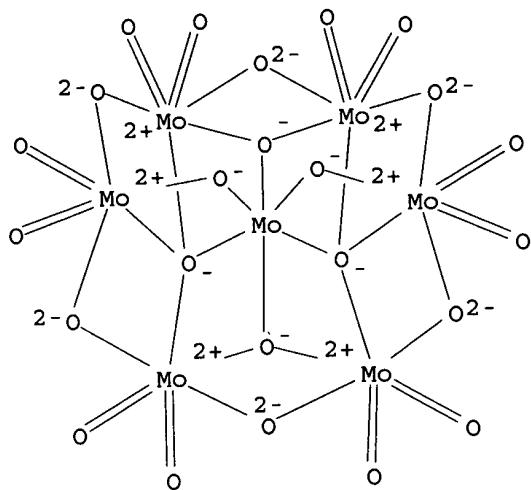
=> e ammonium heptamolybdate/cn  
E1 1 AMMONIUM HEPTAFLUOROZIRCONATE (IV) /CN  
E2 1 AMMONIUM HEPTAISOTHIOCYANATOTHORATE (IV) /CN  
E3 1 --> AMMONIUM HEPTAMOLYBDATE/CN

E4 1 AMMONIUM HEPTAMOLYBDATE ((NH4)6Mo7O24) /CN  
E5 1 AMMONIUM HEPTAMOLYBDATE ((NH4)6Mo7O24) TETRAHYDRATE/CN  
E6 1 AMMONIUM HEPTANITROSYLTRITHIOXOTETRAFERRATE(III)/CN  
E7 1 AMMONIUM HEPTANOATE/CN  
E8 1 AMMONIUM HEPTATHIOCYANATOQUOTHORATE (IV) /CN  
E9 1 AMMONIUM HEPTATUNGSTATE ((NH4)6Mo7O24) /CN  
E10 1 AMMONIUM HEPTYL SULFATE/CN  
E11 1 AMMONIUM HEXAAMMINECOBALT OXOHEXACARBONATODIZIRCONATE (IV) ,  
N ONAHYDRATE/CN  
E12 1 AMMONIUM HEXAAMMINECOBALT (3+) DIPERCHLORATE DICHLORIDE/CN

=> e3  
L2 1 "AMMONIUM HEPTAMOLYBDATE" /CN

=> d 12

L2 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2003 ACS  
RN 12027-67-7 REGISTRY  
CN Molybdate (Mo7O246-), hexaammonium (9CI) (CA INDEX NAME)  
OTHER CA INDEX NAMES:  
CN Ammonium molybdate(VI) ((NH4)6Mo7O24) (6CI)  
CN Molybdic acid (H6Mo7O24), hexaammonium salt (8CI)  
OTHER NAMES:  
CN Ammonium heptamolybdate  
CN Ammonium heptamolybdate ((NH4)6Mo7O24)  
CN Ammonium molybdate  
CN Ammonium molybdate ((NH4)6(Mo7O24))  
CN Ammonium molybdate ((NH4)6Mo7O24)  
CN Ammonium paramolybdate  
CN Ammonium paramolybdate ((NH4)6Mo7O24)  
CN Hexaammonium heptamolybdate  
CN Hexaammonium tetracosaoxoheptamolybdate  
CN Hexaammonium tetracosaoxoheptamolybdate(6-)  
CN PM 20  
DR 12501-45-0  
MF H4 N . 1/6 Mo7 O24  
CI CCS, COM  
LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BIOBUSINESS, BIOSIS, BIOTECHNO,  
CA, CAOLD, CAPLUS, CASREACT, CEN, CHEMCATS, CHEMLIST, CIN, CSCHEM,  
EMBASE, HSDB\*, IFICDB, IFIPAT, IFIUDB, MEDLINE, MRCK\*, MSDS-OHS,  
NIOSHTIC, PIRA, PROMT, RTECS\*, TOXCENTER, TULSA, USPAT2, USPATFULL, VTB  
(\*File contains numerically searchable property data)  
Other Sources: DSL\*\*, EINECS\*\*, TSCA\*\*  
(\*\*Enter CHEMLIST File for up-to-date regulatory information)  
CRN (12274-10-1)



● 6 NH<sub>4</sub><sup>+</sup>

2097 REFERENCES IN FILE CA (1957 TO DATE)  
 60 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 2100 REFERENCES IN FILE CAPLUS (1957 TO DATE)  
 20 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> e ammonium paratungstate/cn  
 E1 1 AMMONIUM PARAMOLYBDATE HEXAHYDRATE/CN  
 E2 1 AMMONIUM PARAMOLYBDATE TETRAHYDRATE/CN  
 E3 2 --> AMMONIUM PARATUNGSTATE/CN  
 E4 1 AMMONIUM PARATUNGSTATE ((NH4)10W12O41.5H2O)/CN  
 E5 1 AMMONIUM PARATUNGSTATE (5(NH4)2O.12WO3.5H2O)/CN  
 E6 1 AMMONIUM PARINARATE/CN  
 E7 1 AMMONIUM PECTATE/CN  
 E8 1 AMMONIUM PELARGONATE/CN  
 E9 1 AMMONIUM PENICILLIN G/CN  
 E10 1 AMMONIUM PENTAAMMONIATE/CN  
 E11 1 AMMONIUM PENTABORATE ((NH4)B5O8)/CN  
 E12 1 AMMONIUM PENTABORATE (NH4B5O8)/CN

=> e3  
 L3 2 "AMMONIUM PARATUNGSTATE"/CN

=> d 13

L3 ANSWER 1 OF 2 REGISTRY COPYRIGHT 2003 ACS  
 RN 12028-06-7 REGISTRY  
 CN Tungstate (W7O246-), hexaammonium (9CI) (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN Ammonium tungstate(VI) ((NH4)6W7O24) (6CI, 7CI)  
 CN Tungstic acid (H6W7O24), hexaammonium salt (8CI)  
 OTHER NAMES:  
 CN Ammonium heptatungstate [(NH4)6Mo7O24]  
 CN **Ammonium paratungstate**  
 CN Ammonium tungstate ((NH4)6W7O24)  
 DR 12293-38-8, 12501-52-9, 52232-69-6

MF H4 N . 1/6 024 W7

CI CCS

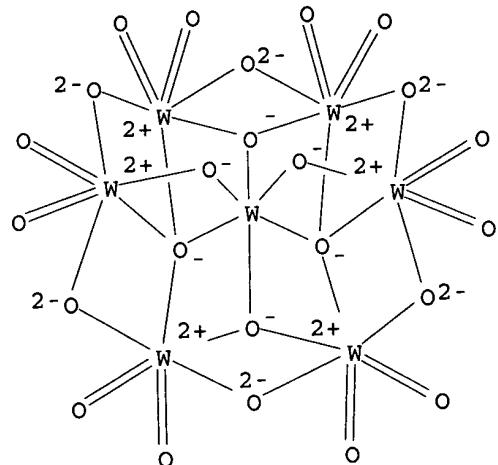
LC STN Files: ANABSTR, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, CBNB, CHEMLIST,

CIN, IFICDB, IFIPAT, IFIUDB, PROMT, TOXCENTER, USPAT2, USPATFULL

Other Sources: EINECS\*\*

(\*\*Enter CHEMLIST File for up-to-date regulatory information)

CRN (12440-35-6)



●6 NH<sub>4</sub><sup>+</sup>

227 REFERENCES IN FILE CA (1957 TO DATE)

3 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

228 REFERENCES IN FILE CAPLUS (1957 TO DATE)

8 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> file caplus  
COST IN U.S. DOLLARS  
FULL ESTIMATED COST

SINCE FILE ENTRY	TOTAL SESSION
18.90	19.11

FILE 'CAPLUS' ENTERED AT 07:34:02 ON 25 JUN 2003  
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FILE COVERS 1907 - 25 Jun 2003 VOL 138 ISS 26  
FILE LAST UPDATED: 24 Jun 2003 (20030624/ED)

This file contains CAS Registry Numbers for easy and accurate  
substance identification.

=> 11  
L4 886 L1

=> 12  
L5 2100 L2

=> 13  
L6 436 L3

=> 14 and 15  
L7 2 L4 AND L5

=> 17 and 16  
L8 1 L7 AND L6

=> d 18 ti fbib abs

L8 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS  
TI Two powder synthesis of hydrotalcite and hydrotalcite-like compounds with  
polyvalent inorganic anions

AN 1998:192059 CAPLUS

DN 128:272366  
TI Two powder synthesis of hydrotalcite and hydrotalcite-like compounds with  
polyvalent inorganic anions

IN Martin, Edward S.; Stinson, John M.; Cedro, Vito, III; Horn, William E.,  
Jr.

PA Aluminum Company of America, USA

SO U.S., 10 pp., Cont.-in-part of U.S. Ser. No. 487,816, abandoned.  
CODEN: USXXAM

DT Patent

LA English

FAN.CNT 9

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5730951	A	19980324	US 1996-647509	19960514
				US 1994-235504	A219940429
				US 1994-290220	B219940815
				US 1995-487816	B219950607
				US 1994-235504	19940429
	US 5514361	A	19960507		

PATENT FAMILY INFORMATION:

FAN 1996:110349

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9529874	A1	19951109	WO 1995-US167	19950106
	W: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD, MG, MN, MW, MX, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SI, SK, TJ, TT, UA, US				
	RW: KE, MW, SD, SZ, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG			US 1994-235504	A119940429
	US 5514361	A	19960507	US 1994-235504	19940429

CA 2189020	AA	19951109	CA 1995-2189020 19950106
AU 9515594	A1	19951129	US 1994-235504 A 19940429
AU 708168	B2	19990729	AU 1995-15594 19950106
EP 759888	A1	19970305	US 1994-235504 A 19940429
EP 759888	B1	20000315	WO 1995-US167 W 19950106
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT,			
EP 1995-907324 19950106			

SE

HU 75979	A2	19970528	US 1994-235504 A 19940429
BR 9507557	A	19970805	WO 1995-US167 W 19950106
JP 09512519	T2	19971216	HU 1996-2991 19950106
AT 190589	E	20000415	US 1994-235504 A 19940429
ES 2143615	T3	20000516	BR 1995-7557 19950106
RU 2155710	C2	20000910	US 1994-235504 A 19940429
			WO 1995-US167 W 19950106
			JP 1995-528181 19950106
			US 1994-235504 A 19940429
			WO 1995-US167 W 19950106
			AT 1995-907324 19950106
			US 1994-235504 A 19940429
			WO 1995-US167 W 19950106
			ES 1995-907324 19950106
			US 1994-235504 A 19940429
			RU 1996-122864 19950106
			US 1994-235504 A 19940429
			WO 1995-US167 W 19950106

FAN 1996:313901

PATENT NO.

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APPLICATION NO.

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PI	WO 9605140	A1	19960222	WO 1995-US166 19950106
	W: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD, MG, MN, MW, MX, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SI, SK, TJ, TT, UA, US			
	RW: KE, MW, SD, SZ, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG			
				US 1994-290220 A 19940815

CA 2197664	AA	19960222	CA 1995-2197664 19950106
			US 1994-290220 A 19940815

AU 9515593	A1	19960307	AU 1995-15593 19950106
AU 704214	B2	19990415	

EP 776317	A1	19970604	US 1994-290220 A 19940815
EP 776317	B1	19991103	WO 1995-US166 W 19950106

R: AT, BE, DE, DK, ES, FR, GB, GR, IE, IT, NL, PT, SE

US 1994-290220 A 19940815

WO 1995-US166 W 19950106

BR 9508872	A	19980106	BR 1995-8872 19950106
			US 1994-290220 A 19940815

JP 10503465	T2	19980331	WO 1995-US166 W 19950106
			JP 1996-507274 19950106

HU 77873	A2	19980928	US 1994-290220 A 19940815
			WO 1995-US166 W 19950106

AT 186281	E	19991115	HU 1998-1426 19950106
			US 1994-290220 A 19940815

AT 1995-907323 19950106

US 1994-290220 A 19940815

ES 2140657	T3	20000301	ES 1995-907323	19950106
IL 114953	A1	20000601	US 1994-290220	A 19940815
FAN 1996:722556 PATENT NO.	KIND	DATE	IL 1995-114953	19950815
PI US 5578286	A	19961126	US 1994-290220	A 19940815
US 5514361	A	19960507	APPLICATION NO.	DATE
FAN 1998:186425 PATENT NO.	KIND	DATE	US 1995-482390	19950607
PI US 5728363	A	19980317	US 1994-235504	A219940429
US 5514361	A	19960507	US 1994-290220	B219940815
FAN 1998:186426 PATENT NO.	KIND	DATE	US 1994-235504	19940429
PI US 5728364	A	19980317	APPLICATION NO.	DATE
US 5514361	A	19960507	US 1996-629717	19960409
FAN 1998:186427 PATENT NO.	KIND	DATE	US 1994-235504	A219940429
PI US 5728365	A	19980317	US 1994-290220	B219940815
US 5514361	A	19960507	US 1995-472205	B219950607
FAN 1998:186428 PATENT NO.	KIND	DATE	US 1994-235504	19940429
PI US 5728366	A	19980317	APPLICATION NO.	DATE
US 5514361	A	19960507	US 1996-645665	19960514
FAN 1998:457159 PATENT NO.	KIND	DATE	US 1994-235504	A219940429
PI US 5776424	A	19980707	US 1994-290220	B219940815
US 5514361	A	19960507	US 1995-485414	B219950607
AB Anion-intercalated layered double hydroxides are manufd. by reacting a powder of .gtoreq.1 divalent metal compd. with a powder of .gtoreq.1 trivalent metal compd. in (carboxylic acid-free) aq. suspension, then contacting the resulting double hydroxide intermediate with an acid, salt of an acid, or ammonium salt of an anion to make an intercalated layered double hydroxide. Polyvalent inorg. anion-intercalated hydrotalcite-like material is manufd. by first reacting a Mg-contg. powder and a transition metal powder in (carboxylic acid-free) aq. suspension to form a meixnerite			US 1994-235504	19940429
			intermediate. This intermediate is then contacted with a polyvalent inorg. anion in its acid, acid salt or ammonium salt form, to make a	

hydrotalcite-like material. The latter is then sepd. from the suspension.

Representative materials include a hydrotalcite-like material intercalated

with a borate, metatungstate or paramolybdate anion, e.g.,  
Al0.31Mg0.69(OH)2(MoO4)0.15(CO3)0.015.1.09 H2O. In an example,  
hydromagnesite 100 g was mixed with rehydratable alumina (size 2 .mu.m)

31 g in 750 mL deionized water, and the slurry was stirred at room temp. for 3 h under addn. of liq. CO2 to raise the pressure to 40.1 atm. Then, the system was heated to 50.degree.C for 2 h. The resulting dried filter cake

contained major amts. of hydrotalcite.

RE.CNT 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> 17 not 18  
L9 1 L7 NOT L8

=> d 19 ti

L9 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS  
TI Regulating wastewater treatment agent dosage based on operational system  
stresses

=> d 18 ti fbib abs15 and 16  
L6 IS NOT VALID HERE  
For an explanation, enter "HELP DISPLAY".

=> 15 and 16  
L10 91 L5 AND L6

=> MoCu?  
L11 97 MOCU?

=> l10 and l11  
L12 0 L10 AND L11

=> WCu?  
L13 146 WCU?

=> l10 and l13  
L14 0 L10 AND L13

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COST IN U.S. DOLLARS  
FULL ESTIMATED COST

SINCE FILE ENTRY	TOTAL SESSION
15.95	35.06

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)  
CA SUBSCRIBER PRICE

SINCE FILE ENTRY	TOTAL SESSION
-0.65	-0.65

SESSION WILL BE HELD FOR 60 MINUTES  
STN INTERNATIONAL SESSION SUSPENDED AT 07:39:39 ON 25 JUN 2003